

## Message Text

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C O N F I D E N T I A L SECTION 1 OF 5 IAEA VIENNA 08484

E.O. 11652: GDS

TAGS: OCON IAEA TECH PARM

SUBJECT: IAEA PNE ADVISOR GROUP

REF: (A) STATE 218025; (B) STATE 232093

1. SUMMARY: FIRST MEETING OF THE AD HOC ADVISORY

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GROUP ON PNES TO IAEA BOARD OF GOVERNORS HELD  
SEPT. 30-OCT 1 IN VIENNA. THIRTY-NINE  
COUNTRIES (ALL IAEA MEMBERS) WERE REPRESENTED,  
INCLUDING US, UK, USSR, ARGENTINA, EGYPT, FRANCE,  
GDR, FRG, INDIA, ITALY, MEXICO, JAPAN, SWEDEN,  
AND THAILAND. ISSUE OF ROC REPRESENTATION DID  
NOT ARISE . A. WILSON OF AUSTRALIA WAS  
SELECTED AS CHAIRMAN, WITH QUESTION OF  
VICE CHAIRMEN POSTPONED TO NEXT MEETING  
(MARCH 2, 1976). THERE WAS WIDESPREAD  
SUPPORT FOR GROUP'S WORK. U.S. GOALS (REFTELS  
A AND B) BELIEVED ACCOMPLISHED. INITIAL WORK  
OF GROUP WILL CONSIST OF SEPARATE STUDIES OF  
ECONOMIC, LEGAL/TREATY AND HEALTH/SAFETY  
ASPECTS OF PNES, AND PREPARATION BY SECRETARIAT  
OF CATALOGUE OF POSSIBLE PNE APPLICATIONS.  
FRG, WITH SOME SUPPORT, PRESSED HARD FOR  
EARLY DRAFTING OF MODEL PNE AGREEMENTS , WHILE  
US AND OTHERS CALLED FOR ADDRESSING OTHER  
ASPECTS FIRST. RESULT WAS THAT INITIAL  
LEGAL/TREATY STUDY, TO BE DRAFTED BY SECRETARIAT,  
WILL PLACE EMPHASIS ON OUTLINING STRUCTURE AND  
CONTENTS OF PNE AGREEMENTS RATHER THAN DEVELOP-  
MENT OF A DRAFT AGREEMENT. SOVIETS AND THEIR  
ALLEIS CALLED FOR STUDY OF HEALTH AND SAFETY  
ASPECTS OF PNES PRIOR TO LEGAL ASPECTS, WITH  
EMPHASIS ON DEVELOPMENT OF SAFETY CRITERIA FOR  
PNES. US WAS SUCCESSFUL IN REMOVING REFERENCE  
TO "CRITERIA" (WITH ITS LTBT IMPLICATIONS)  
FROM SCOPE OF WORK. SOVIETS WERE ASSIGNED BY  
CHAIRMAN TO DRAFT HELTH AND SAFETY STUDY,  
WITH REVIEW OF DRAFT BY EXPERT CONSULTANTS.  
SAME REVIEW PLANNED FOR LEGAL STUDY UNDER WAY BY  
SECRETARIAT AND A STUDY OF ECONOMIC ASPECTS  
OF PNES, NOW UNDER WAY BY  
US CONSULTATN. DURING MEETING INDIAN  
REP CALLED FOR GROUP TO DISCUSS PNES AND NUCLEAR  
WEAPONS ( WHICH HE SAID WERE CLEARLY DISTINGUISHABLE)  
AND SAID IMAGINARY LEGAL PROBLEMS SHOULD NOT HOLD  
UP PNES. JAPAN DENIED THAT PNES AND WEAPONS  
WERE DISTINGUISHABLE. CANADA REAFFIRMED INTEREST  
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IN PNE MORATORIUM IN CTB CONTEXT AND PHILIPPINES  
MENTIONED POSSIBILITY OF LTBT AMENDMENT TO PERMIT  
PNE BENFITS. EGYPT WAS "QUITE INTERESTED IN  
PROVISION OF PNE SERVICES IN CONNECTION WITH  
SEVERAL MAJOR PROJECTS" AND THAILAND SAW LARGE  
FUTURE ROLE FOR PNES. ARGENTINA SUGGESTED  
HOST NNWS AS SITE FOR PNE DEVELOPMENT.

ACTION REQUESTED: SECRETARIAT HAS  
REQUESTED NOTIFICATION BY OCT 8 IF FIRST DRAFT  
OF ROWEN ECONOMIC STUDY, OR MAJOR PORTIONS THEREOF,  
COULD BE MADE AVAILABLE BY DEC. 15. PLEASE ADVISE.  
END SUMMARY.

2. MEETING OPENED 30 SEPT. BY IAEA DG EDKLUND,  
WHO OFFERED SECRETARIAT ASSISTANCE FOR GROUP'S  
EFFORTS AND SAID DEPUTY DG ZHELUDEV WOULD BE  
REPRESENTING HIM ON GROUP. A. WILSON,  
AUSTRALIA, UNANIMOUSLY SELECTED AS CHAIRMAN.  
WILSON, WITH GROUP'S CONCURRENCE, DELAYED  
ACTION TO APPOINT TWO VICE CHAIRMEN UNTIL NEXT  
MEETING OF GROUP. FYI. WILSON'S CURRENT PLAN  
IS TO SELECT ONE VICE CHAIRMAN FROM EASTERN  
EUROPEAN NATIONS AND ONE FROM DEVELOPING WORLD.  
IN ACCORDANCE WITH REFTEL (B), MISSION HAS BEEN  
WORKING WITH WILSON TO IDENTIFY SUITABLE CO-  
CHAIRMEN. END FYI. HE EXPLAINED THAT NPT  
PARTIES NOT MEMBERS OF IAEA HAD BEEN INVITED  
TO ATTEND BY PRESS RELEASES AT UN HEADQUARTERS  
AND IAEA AND SAID THAT IF ANY NPT PARTIES  
EXPRESSED INTEREST, GROUP WOULD BE HAPPY TO HAVE  
THEM JOIN. GROUP AGREED. OUTLINE OF ROWEN  
STUDY ON ECONOMIC ASPECTS OF PNES ALSO DISTRI-  
BUTED AT MEETING.

3. FOLLOWING THREE-POINT AGENDA ADOPTED BY GROUP:  
(A) ELABORATION OF VARIOUS GOVERNMENT VIEWS  
IN GENERAL DEBATE;  
(B) ORGANIZATION OF ADVISORY GROUP WORK PROGRAM  
AND ESTABLISHING OF PRIORITIES;  
(C) DEFINITION OF STUDY GROUPS DESIRED TO  
ACCOMPLISH WITH HELP OF IAEA AND DISCUSSION OF  
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SCOPE AND CONTENT OF STUDIES.

4. VIEWS OF REPRESENTATIVES. PRIOR TO  
MEETING, VIEWS OF SEVERAL COUNTRIES WERE  
DISTRIBUTED BY SECRETARIAT. THESE ARE  
BEING FORWARDED TO WASHINGTON. FOLLOWING  
ARE HIGHLIGHTS. SEVERAL CALLED FOR IMPROVED  
DISSEMINATION OF PNE INFORMATION. ARGENTINA  
REFERRED TO POSSIBLE "GREAT COMMERCIAL VALUE"  
OF PNES, AND EXPRESSED CONCERN ABOUT POSSIBLE  
DISCRIMINATION TOWARD NON-NPT PARTIES. FRG  
SAID GROUP SHOULD PROPOSE COORDINATED INTERPRETATION  
OF RELATION BETWEEN ART. I OF LTBT AND ART. V  
OF NPT, AND ELABORATE DRAFT PNE MODEL AGREEMENTS

UNDER ART. V OF NPT. UK (A) NOTED IT HAD NO  
PNE PROGRAM, (B) WANTED ECONOMIC, LEGAL, HEALTH  
AND SAFETY ASPECTS TAKEN YP FIRST, WITH PROCEDURAL  
QUESTIONS RELATING TO SERVICES LATER, AND (C)  
HOPED TO BE ABLE TO CONTRIBUTE A WORKING  
PAPER ON SOME OF THE RADIOLOGICAL ASPECTS OF  
CRATERING EXPLOSINS. SWEDEN INDICATED INTEREST  
IN ANALYZING HOW PNE ASSISTANCE TO NON-NPT  
PARTIES SHOULD BEST BE ARRANGED, WANTED TO  
PURSUE RELATION BETWEEN SPECIAL INTERNATIONAL  
AGREEMENT AND TEST BAN (WHERE CONTROL PROBLEMS

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WOULD BE MORE SEVERE, AND SAID PROCEDURES FOR ART. V IMPLEMENTATION WOULD CONTRIBUTE TO AVERTING INDIGENOUS PNES. SWEDEN ALSO PUT IN PLUG FOR NUCLEAR DISARMAMENT AND NUCLEAR WEAPONS NON-USE PLEDGE. BOLIVIA, FINLAND, MEXICO, BANLADESK AND DENMARK, ALSO SUBMITTED WRITTEN VIEWS.

5. GENERAL DEBATE OPENED WITH STATEMENTS  
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ELABORATING VIEWS ON GROUP'S ACTIVITIES.  
--US (AMB. TAPE) OUTLINED US VIEWS ON ADVISORY GROUP FORMULATION AND WORK PROGRAM CONTAINED REFTEL(A), WHICH HAD BEEN DISTRIBUTED BY SECRETARIAT SHORTLY BEFORE MEETING.

--UK (THOMSON) OUTLINED WORK PROGRAM WHICH WAS DESIGNED TO EXPLORE "DETAILED TECHNICAL" ASPECTS OF PNE. STATED VIEW THAT GROUP WAS INTENDED TO BE A TECHNICAL, RATHER THAN POLITICAL, FORUM, AND THAT IT WAS MORE IMPORTANT TO BE THOROUGH THAN TO COMPLETE WORK IN 18-MONTH PERIOD SPECIFIED. HE SAID DESIRED PRODUCT WAS SHORT GENERAL REPORT EASILY UNDERSTOOD BY ALL CONCERNED WITH PNE AND SUPPORTED BY DETAILED ANNEXES. BASIC ANNEX TO BE BRIEF TECHNICAL DESCRIPTIONS OF ALL PNE APPLICATIONS STUDIED TO DATE.

ANNEX WOULD THEN BE USED AS COMMON BASIS FOR LEGAL, ECONOMIC AND OTHER STUDIES.

--USSR (MYASNIKOV) SAID HE HOPED THE MORE THAN 20 REPORTS ON PNES BY SOVIET SCIENTISTS WOULD HELP NNWS DECIDE ABOUT PNE USE. ALSO SAID IT WAS IMPORTANT TO IMPLEMENT RECOMMENDATIONS OF REPORT OF FOURTH IAEA PNE TECHNICAL PANEL. HE ASKED THAT GROUP CONSIDER, ON A PRIORITY BASIS, HEALTH AND SAFETY ASPECT I OF PNES TO DEVELOP RADIOACTIVITY CRITERIA, FOLLOWED BY ECONOMIC ASPECTS AND CONSIDERATION OF SEISMIC SAFETY. HE CALLED ATTENTION TO NPT REVCON DECLARATION REAFFIRMING SUPPORT OF ART. V AND ROLE OF IAEA AS THE INTERNATIONAL AGENCY TO ADMINISTER ART. V. IN THIS CONNECTION, HE SAID THAT ANNEX E OF IAEA REPORT TO REVCON (ERICSSON REPORT) PROVIDED A CURRENT REPORT ON PNE STATE-OF-THE-ART. HE AGREED THAT THE GROUP PRODUCT SHOULD BE A SHORT REPORT SUPPORTED BY ANNEXES AND RECOMMENDED UPDATING OF IAEA 1969

PNE BIBLIOGRAPHY AND PUBLICATION OF GLOSSARY OF  
PNE TERMS.

--FRG (UNGERER) EMPHASIZED IAEA ROLE SHOULD  
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BE BROADENED TO INCLUDE ALL PNE IMPLICATIONS AND  
SAID A GREAT DEAL OF WORK HAD ALREADY BEEN DONE ON  
PNES. IN PARTICULAR, TECHNICAL AND HEALTH AND  
SAFETY ASPECTS WERE ADEQUATELY SUMMARIZED IN  
PUBLISHED DOCUMENTS. AS STATED IN FRG  
PUBLISHED VIEWS, GROUP SHOULD CONCENTRATE  
EFFORTS ON PRODUCING TRILATERAL (SUPPLIER,  
RECIPIENT AND IAEA) MODEL AGREEMENT, USING  
IAEA PROJECT AND SUPPLY AGREEMENTS AS GUIDE. HE  
PROPOSED SHORT REPORT SUPPORTED BY ANNEXES ON  
UNSEEN PROCEDURES AND THE MODEL AGREEMENT.

--INDIA (RAMANNA) SAID BOTH PNES AND  
TECHNOLOGY, WERE BEIF CONSTRAINED IN A SIMILAR  
FASHION DUE TO CONCERNS ABOUT PROLIFERATION. HE  
USED INDIAN EXPLOSION AS EXAMPLE  
OF DEVELOPMENT OF NUCLEAR EXPLOSIVES FOR  
SPECIFIC PEACEFUL APPLICATION AND SAID IT WAS  
IMPORTANT TO KEEP UP DEVICE DEVELOPMENT AS WELL  
AS APPLICATIONS. INDIA CONSIDERED IT ESSENTIAL  
THAT GROUP ENCOURAGE STUDIES OF TECHNICAL  
ASPECTS OF POSSIBLE PNE APPLICATIONS AND NOT HOLD  
UP PNES BECAUSE OF "IMAGINARY" LEGALISTIC DIFFICULTIES.  
WITH REACTORS, LEGAL RESTRICTIONS WERE IMPOSED  
AFTER, NOT BEFORE, TECHNOLOGY WAS DEVELOPED AND  
THIS SHOULD BE CASE WITH PNES. INDIAN VIEW IS  
THAT PNES ARE COMPLETELY DISTINGUISHABLE FROM  
NUCLEAR WEAPONS, WHICH USE VERY SOPHISTICATED  
DELIVERY SYSTEMS AND THE GROUP SHOULD ADDRESS  
THIS ISSUE.

--POLAND (KARPIUK) STRESSED NEED TO  
EXAMINE PNE ENVIRONMENTAL AND HEALTH AND  
SAFETY CONCERNS FIRST, FOLLOWED BY  
ECONOMIC ASPECTS NEXT AND LEGAL ASPECTS  
LAST. HE NOTED IN LIGHT OF THIS CONCERN  
FOR ENVIRONMENT AND SAFETY U.S. POSITION  
THAT PNES ARE STILL IN EXPERIMENTAL STAGE.

CZECHOSLOVAKIA (BELACIK) AND HUNGARY (SCHIFFER)  
TOOK SAME APPROACH.

--GDR (THOMAS) ALSO FOLLOWED SOVIET LEAD  
AND SUGGESTED THAT HEALTH AND SAFETY STUDY  
BE DEVELOPED BY USSR SIMILARLY TO ECONOMIC  
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STUDY BY US CONSULTANT. HE ADDED THAT GDR HAS NO INTENTION OF USING PNES.

6. GENERAL DEBATE CONTINUED 1 OCT. DURING MEETING OF ADVISORY GROUP.  
--MEXICO (PRIETO CALDERON), INDICATING IMPATIENCE WITH PACE OF WORK, PRESENTED LISTING OF 15 PREVIOUSLY IDENTIFIED POINTS NEEDING DISCUSSION BY GROUP. THESE INVOLVED IMPROVED INFORMATION EXCHANGE, REVIEW OF PREVIOUS PNE WORK, FINDING BEST WAY TO DISTINGUISH BETWEEN PNES AND WEAPONS AND DEALING WITH THE VARIOUS PROBLEMS AND ASPECTS OF PNES. HE SUGGESTED USING OUTLINE OF ECONOMIC

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ASPECTS STUDY AS MODEL FOR OTHER STUDIES.  
--AUSTRALIA (MCDONAL) EMPHASIZED NEED  
FOR EFFECTIVE IMPLEMENTATION OF ART. V AND  
SUGGESTED CONSIDERATION OF ALTERNATIVES TO PNES  
SINCE IT WAS NOT CLEAR THAT PNES WOULD BE  
PREFERALBE. HE RECOMMENDED GROUP REPORT THAT  
WOULD COVER HEALTH AND SAFETY, LEGAL  
AND ECONOMIC ISSUES IN PROPER PERSPECTIVE AND  
SAID REPORT SHOULD IDENTIFY AND EXPLORE PNE  
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PROBLEMS, NOT NECESSARILY RESOLVE THEM.  
--CANADA (HAMMOND) SAID RECENT CANADIAN  
STUDY INDICATED PNES HELD LITTLE PROMISE FOR  
RECOVERY OF CANADIAN RESOURCES DURING NEXT  
DECADE. IF NUCLEAR WEAPON STATES DETERMINED TO RPOCEED WITH  
PNES AND THEIR BENEFITS EXCEED THEIR RISKS,  
NWS SHOULD PROVIDE BENEFITS IN INTEREST OF  
CONTROLLING PROLIFERATION. HE SUPPORTED FRG  
INTEREST IN DEVELOPMENT OF MODEL AGREEMENT.  
GROUP SHOULD NOT GO INTO ARMS CONTROL IMPLICA-  
TIONS OF PNES, BUT PNE MORATORIUM IN CONTEXT  
OF CTB COULD REMOVE ONE CTB OBSTACLE.  
--PAKISTAN (RAHMAN) RECOMMENDED GROUP OF  
EXPERTS FROM MEMBER STATES PROVIDE INPUT TO  
PNE ECONOMIC STUDY. REPORTED PAKISTAN  
IS STUDYING ECONOMIC IMPORTANCE OF RESOURCE  
RECOVERY, INCLUDING GAS AND  
OIL STIMULTION AND WATER STORAGE. IN INTEREST  
OF ASSURING THAT DEVELOPING COUNTRIES NOT BE  
DENIED RESULTS OF PNE EXPERIEMTN. HE HIGH-  
LIGHTED INTERNATIONAL HEALTH AND SAFETY IMPLICA-  
TIONS OF PNES, NOTING THAT IT HAD BEEN THEIR  
"EXPERIENCE IN THE PAST" THAT RADIOACTIVITY  
CROSSED NATIONAL BOUNDARIES AND HAD WORLD  
WIDE EFFECT.  
--PHILIPPINES (SIAZON) EMPHASIZED THAT  
SUTDY OF LEGAL ISSUES SHOULD BE GIVEN PRIORITY  
OVER TECHNICAL OR HEALTH AND SAFETY ISSUES  
BECAUSE OF TREATY COMPLICATIONS (NPT ART. V  
; . LTBT LIMITATIONS). IN HIS VIEW THERE WAS

A POSSIBILITY THAT UNDER LTBT CONSTRATINS  
NNWS WOULD NEVER ACHIEVE "THE DREAM OF" PNE  
BENEFITS VISUALIZED UNDER ART. V EVEN IF PNES  
TECHNICALLY AND ECONOMICALLY SOUND. LTBT  
AMENDMENT MIGHT BE NECESSARY IN THIS CASE.  
--JAPAN (KATORI) SAID PNES AND NUCLEAR  
WEAPONS CANNOT BE DISTINGUISHED AND SO NNWS  
CANNOT BE ALLOWED TO DEVELOP PNES. PREPARATION  
OF MODEL AGREEMENT SHOULD BE PRIORITY  
TASK OF GROUP. NUCLEAR WEAPON STATES SHOULD  
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PROVIDE MORE DATA TO NNWS ON PNES AND GROUP  
STUDY OF ECONOMIC ISSUES SHOULD INCLUDE IMPLICA-  
TIONS FOR DEVELOPING COUNTRIES. NEED FOR NWS  
TO PROVIDE PNES WOULD BE MORE CLEAR IF ECONOMIC  
ASPECTS WERE BETTER UNDERSTOOD.

--EGYPT (EFFAT) WAS CONCERNED ABOUT LACK OF  
IMPLEMENTATION OF ART. V. EGYPT QUITE INTERESTED  
IN THE PROVISION OF PNE SERVICES IN CONNECTION  
WITH SEVERAL MAJOR PROJECTS AND HOPES WORK OF  
GROUP WILL ENLIGHTEN STATE ON HOW TO OBTAIN  
PNE SERVICES. EGYPT DESIRES (A) UNDERSTANDING  
OF PNE STATE-OF-THE-ART. (B) , ESTABLISHMENT OF  
PROCEDURES FOR PNE PROJECTS. IT IS NOT CLEAR  
WHAT STEPS NNWS SHOULD TAKE FOR PRE-FEASIBILITY  
OR FEASIBILITY STUDIES AND FOR DECIDING ON PNE  
PROJECTS. WORK WAS NEEDED ON TYPE OF INTERNATIONAL  
PNE AGREEMENT REQUIRED.

--SWITZERLAND (VON SCHENCK) EMPHASIZED THEY  
ARE A "HAVE NOT" COUNTRY AND NEED TO KNOW IF  
PNE SERVICES CAN BE OBTAINED OUTSIDE THEIR COUNTRY  
OR, IF NOT, WHAT OTHER RECOURSE THERE WOULD BE.  
WOULD LIKE TO SEE WORK OF GROUP DIRECTED TO  
DEVELOPING A MODEL AGREEMENT.

--THAILAND (TALABHAT) HIGHLIGHTED NEED FOR

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DISTINCTION BETWEEN PNES AND MILITARY NUCLEAR EXPLOSIVES TO REASSURE PUBLIC OPINION. HE HOPED TO BAN ALL MILITARY NUCLEAR EXPLOSIONS, WHILE ALLOWING PNES, WHICH HE WAS SURE WOULD PLAY A LARGE ROLE IN THE FUTURE.

--NETHERLANDS (BOT) ASSOCIATED HIS COUNTRY WITH THE VIEWS OF CANADA, AND SAID DUTCH WERE VERY RESERVED ON DESIRABILITY OF PNES.

--COLOMBIA (OTALORA) SAID IT WAS NECESSARY  
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TO INTENSIFY EXAMINATION OF PNES,  
FROM R&S THROUGH PRACTICAL APPLICATIONS.

--Zaire (Bango) SUPPORTED SOVIET VIEW OF  
WORK PROGRAM PRIORITIES.

--ARGENTINA (BANCORA) POINTED OUT  
THAT, IF PNES HAVE USEFUL APPLICATIONS, THE  
COUNTRIES DEVELOPING THEM WOULD USE THEM AND  
THEY SHOULD BE AVAILABLE TO ALL. ALSO OTHER

COUNTRIES COULD NOT HOPE TO OBTAIN INFORMATION  
ON PNES WHICH WERE NOT DEVELOPED. VERY FEW  
COUNTRIES CAN CONTRIBUTE TO STUDIES OF TECHNICAL,  
ECONOMIC AND LEGAL ASPECTS OF PNES.

HE PROPOSED THAT IF SOME PNE PROJECTS COULD NOT BE  
DEVELOPED IN NWS, THE NNWS COULD BECOME THE HOST  
FOR DEVELOPMENT SUITED TO THEIR PARTICULAR TERRAIN.  
PRIORITY SHOULD BE ASSIGNED TO STUDY OF LEGAL  
ASPECTS.

--FRANCE (DEMENTHON) SAID IT WOULD BE  
PREMATURE TO DRAFT MODEL AGREEMENTS BEFORE  
KNOWING WHAT COULD BE ACCOMPLISHED WITH PNES.

--SWEDEN (ERICSSON) SAID VIEWS ARE SIMILAR  
TO PHILIPPINES. INFO AVAILABLE ON TECHNOLOGY  
AND HEALTH AND SAFETY IS SUFFICIENT TO PROVIDE  
BASIS FOR PRIORITY STUDY OF LEGAL ISSUES AND  
TREATY RAMIFICATIONS.

7. WORK PROGRAMS. DISCUSSION ON WORK PROGRAM  
FOLLOWING PRESENTATION OF VIEWS CONSISTED  
PRIMARILY OF RESTATEMENT BY REPRESENTATIVES  
OF ABOVE VIEWS. THERE WAS AGREEMENT ON NEED  
TO PERFORM STUDY OF ECONOMIC ASPECTS OF PNES.  
BASIC DEBATE WAS BETWEEN THOSE LED BY SOVIETS  
AND THEIR ALLIES STRONGLY FAVORING NEED FOR  
ADDED TECHNICAL INFORMATION AND PRIORITY STUDY  
OF HEALTH, SAFETY, AND ENVIRONMENTAL ASPECT  
AND THOSE, LED BY FRG, ARGUING FOR LEGAL STUDY,  
AND IN PARTICULAR MODEL AGREEMENT DRAFTING, TO  
BE DONE FIRST SINCE THERE WAS ADEQUATE BACKGROUND  
ON TECHNICAL MATTERS. MYASNIKOV SAID SOVS HAD  
LARGE AMOUNTS OF DATA AVAILABLE ON RADIOACTIVITY  
AND WOULD PROVIDE CONSULTANT TO  
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DEVELOP HEALTH AND SAFETY STUDIES. UK  
ALSO STRESSED NEED FOR LISTING OF POSSIBLE  
PNE APPLICATIONS AND THEIR STATUS. WILSON,  
NOTING DISAGREEMENTS ON PRIORITIES, PROPOSED  
MOVING IN PARALLEL IN ALL THESE AREAS, AND  
CAVLED FOR RECESS DURING WHICH DRAFT WORK  
STATEMENTS DESCRIBING THE SCOPE OF FOUR  
STUDIES WERE PREPARED BY REPRESENTATIVES HE  
DESIGNATED AS FOLLOWS: (A) UK-CATALOGUE  
OF POTENTIAL PNE APPLICATIONS; (B) USSR-  
HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS;  
(C) INDIA- ECONOMIC STUDIES; (D) FRG-LEGAL ASPECTS (TO INCLUDE  
TREATY  
CONSIDERATIONS AND ASPECTS RELATED TO LEGAL  
INSTRUMENTS). OTHER REPS WER FREE TO ASSIST THOSE DESIGNATED.

FYI. CHAIRMAN'S INTENTION, EXPRESSED PRIVATELY, WAS TO INVOLVE AS MANY KEY COUNTRIES AS POSSIBLE IN EXERCISE IN DIRECT WAY. HENCE, FOR EXAMPLE, CONSCIOUS CHOICE OF INDIA TO DRAFT ECONOMIC STUDY SCOPE. END FYI.

8. PROPOSED WORK STATEMENTS WERE THEN DISCUSSED IN GENERAL SESSION. ACTION WAS TAKEN BY US DEL TO BLOCK SOVIET EFFORT TO PLACE "DEVELOPMENT OF SAFETY CRITERIA" IN SCOPE BY REQUEST TO CHAIRMAN TO USE INSTEAD LANGUAGE AGREED TO BY US AND SOVIETS AT FOURTH IAEA PNE TECHNICAL PANEL ON "POSSIBLE TECHNICAL BASES THAT COULD BE USED IN QUANTITATIVE STUDIES". US DEL ALSO REQUESTED CHANGE OF FRG DRAFT LANGUAGE REFERRING TO DRAFTING OF MODEL AGREEMENTS TO ASSURE THAT EMPHASIS WAS PLACED ON OUTLINE OF STRUCTURE AND CONTENT OF INITIAL DRAFT, RATHER THAN SOLELY ON DEVELOPMENT OF AN AGREEMENT.

9. US REP SUGGESTED THAT STUDIES TO BE CONDUCTED MIGHT BE CONSIDERED AS "INITIAL" TASKS IN THE OVERALL GROUP EFFORT. WITH INITIAL TASKS UNDER WAY, IT WOULD BE POSSIBLE TO CONSIDER A "MODEL AGREEMENT" AT A LATER DATE. THE US DEL SUPPORTED CHAIRMAN'S PROPOSED WORK PROGRAM AND ASSIGNMENT OF TASKS AND STATED US PREPARED TO ASSIST SECRETARIAT AND

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OTHERS WITH PREPARATION AND REVIEW OF DRAFT STUDIES. FYI. IN PRIVATE DISCUSSIONS AFTER MEETING WITH WILSON, TENTATIVE OFFER WAS MADE OF US EXPERT CONSULTANTS TO PROVIDE INPUT TO, AND PARTICIPATE IN REVIEW OF, DRAFT STUDIES ON HEALTH AND SAFETY AND LEGAL ASPECTS, AND PNE CATALOGING. MISSION PLANS TO CONFIRM THIS OFFER IN LETTER TO SECRETARIAT WITHIN NEXT WEEK. END DYI.

10. FINAL AGREEMENT ON SCOPE OF STUDIES TO BE CONDUCTED WAS AS FOLLOWS: (A) CATALOGUE OF

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ACTION OES-04

INFO OCT-01 ARA-06 EUR-12 EA-07 NEA-10 IO-10 ISO-00 FEA-01

ACDA-05 CIAE-00 INR-07 L-03 NSAE-00 NSC-05 EB-07

NRC-05 DODE-00 PM-04 H-02 PA-01 PRS-01 SP-02 SS-15

USIA-06 COME-00 TRSE-00 XMB-02 OMB-01 OIC-02 /119 W

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TO SECSTATE WASHDC PRIORITY 6507

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AMEMBASSY CANBERRA

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POSSIBLE APPLICATIONS OF PNES. "A LIST OF POSSIBLE APPLICATIONS OF PNES, THEIR TECHNICAL CHARACTERISTICS, PHYSICAL PARAMETERS RELEVANT TO EACH, STATE OF RESEARCH AND DEVELOPMENT ON EACH AND DETAILS OF INSTANCES WHERE APPLICATION HAS BEEN EXTENSIVELY STUDIED, EXPERIMENTALLY TESTED OR USED." (B) HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS OF PNES. -"FORECAST OF RADIATION AND RADIOACTIVITY SITUATION IN CENTRAL, EPICENTRAL, CONFIDENTIAL

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NEAR AND REMOTE ZONES WHEN A CONTAINED OR CRATERING PNE TAKES PLACE; -"FORECAST OF POSSIBLE RADIOACTIVE POLLUTION OF PRODUCTS OR MATERIALS OBTAINED IN PNE PROJECTS;-EVALUATION OF POSSIBLE BIOLOGICAL

ENVIRONMENTAL AND SEISMIC CONSEQUENCES OF PNE;  
AND-POSSIBLE TECHNICAL BASES THAT COULD BE USED  
IN QUANTITATIVE STUDIES OF THE HEALTH AND SAFETY  
ASPECTS IN PROJECTS INVOLVING THE USE OF PNES."

(C) LEGAL ASPECTS OF PNES. "1. CONSIDERATION OF  
INTERNATIONAL TREATIES AND AGREEMENTS TO BE TAKEN  
INTO ACCOUNT, PARTICULAR REFERENCE TO:- OBLIGATIONS  
AND RIGHTS OF SUPPLIER STATES;-OBLIGATIONS AND  
RIGHTS OF RECIPIENT STATES;-FUNCTIONS OF IAEA:  
AND-LIMITATIONS IMPOSED BY THESE INSTRUMENTS  
ON MODE OF USE OF PNE. 2. SIMILAR CONSIDERATION  
OF RELEVANT TREATIES AND AGREEMENTS UNDER CONSIDERA-  
TION OR NEGOTIATION. 3. IDENTIFICATION OF  
LEGAL INSTRUMENTS TO BE DEVELOPED FOR  
PROVISION OF PNE-RELATED SERVICES, AND  
FORMULATION OF AN OUTLINE OF STRUCTURE AND  
CONTENT, OR AN INITIAL DRAFT, OF AGREEMENT(S)  
REQUIRED." (D) ECONOMIC ASPECTS OF PNES.

"STUDY ON ECONOMIC ASPECTS OF PNES BASED ON  
GOV/COM.23/4,ROWEN'S OUTLINE SUBJECT TO THE FOLLOWING:  
-INSOFAR AS STUDY DEALS WITH USABILITY OF  
NUCLEAR EXPLOSIVES FOR MILITARY PURPOSES  
AND WITH HEALTH AND SAFETY ASPECTS, STUDY SHOULD  
BE RESTRICTED TO COST IMPLICATIONS;-STUDY  
SHOULD DISCUSS EXTENT TO WHICH GENERAL ECONOMIC  
MODEL TAKES ACCOUNT OF SUCH FACTORS AS LOCATION,  
ALTERNATIVE TECHNOLOGIES AND RESOURCES, AND  
DIFFERENCES IN COSTING METHODS WHICH COULD  
PLAY A DECISIVE ROLE IN EVALUATIONS OF ECONOMIC  
VIABILITY OF PNE PROJECTS; -STUDY SHOULD DISCUSS  
EXTENT TO WHICH COST DATA OBTAINED FROM PARTICULAR  
PROJECT IS RELEVANT TO SIMILAR OR DIFFERENT  
PROJECTS IN SAME COUNTRY OR ELSEWHERE; AND-  
STUDY SHOULD DISCUSS EXTENT TO WHICH ESTIMATES  
CAN AT PRESENT BE MADE OF: (I) NUMBER OF  
POTENTIAL EXCAVATION PROJECTS OF A SIZE FOR WHICH  
EXCAVATION USING NUCLEAR TECHNIQUES, IF PRACTICABLE,  
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MIGHT OFFER MAJOR ECONOMIES OVER EXCAVATION BY  
CONVENTIONAL TECHNIQUES; AND (II) PROPORTIONATE  
INCREASES IN WORLD RESERVES OF DIFFERENT MINERAL  
RESOURCES WHICH MIGHT BE PROVED IF VARIOUS  
PROPOSALS FOR USE OF PNE FOR MINERAL RECOVERY  
COULD BE DEVELOPED INTO TECHNICALLY AND  
ECONOMICALLY Viable TECHNIQUES."

11. THE GROUP AGREED TO SCHEDULE ITS SECOND  
MEETING FOR A PERIOD OF ONE TO TWO WEEKS IN  
VIENNA BEGINNING 2 MARCH 1976.

12. A FOLLOW-ON MEETING WAS HELD 2 OCT. BETWEEN GROUP CHARIAN AND IAEA SECRETARIAT TO CONFIRM SCOPE OF STUDIES AND SCHEDULES OF CONSULTANT REVIES PRIOR TO SECOND GROUP MEETING. US MISSION WAS REQUESTED TO CONFIRM THAT PORTION OF SCHEDULE RELATED TO ECONOMIC STUDY BEING DRAFTED BY US CONSULTANT ROWEN. PROPOSED SCHEDULE FOLLOWS: (A) CATABLOG OF POSSIBLE APPLICATIONS OF PNES, TO BE COMPLETED BY IAEA STAFF BY NOV. 10; (B) INITIAL DRAFT OF STUDY ON THE LEGAL ASPECTS OF PNES TO BE COMPLETED 15 DEC. BY IAEA LEGAL STAFF, FOR CONSULTANT REIVIEW 15 JAN. 1976; (C) INITIAL DRAFT OF STUDY OF HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS, TO BE COMPLETED BY SOVIET CONSULTANT 15 DEC., TRANSLATED BY 25 DEC. AND SUBMITTED TO REVEIW BY CONSULTANTS TO IAEA 9 FEB. 1976. (D) INITIAL DRAFT OF STUDY OF ECONOMIC ASPECTS, TO BE COMPLETED BY US CONSULTANT 15 DEC. TRANSLATED BY 25 DEC. AND SUBMITTED TO REVIEW BY CONSULTATNS TO IAEA 16 FEB. 1976. FYI. US DEL BELIEVES THERE WILL BE ADEQUATE OPPORTUNITY FOR US TO MONITOR AND CONTROL DRAFTING OF STUDY ON HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS OF POES BY SOVIET CONSULTANT. IN DRAFTING STUDY SOVIETS WILL BE OPERATING WITHIN SCOPE AGREED TO BY GROUP, WITH "CRITERIA" SPECIFICALLY DELETED. IF CONSIDERED DESIRABLE, US COULD PROVIDE INPUT TO SOVIETS AT EARLY POINT IN DRAFTING

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IN ATTEMPT TO INFLUENCE FIRST DRAFT. IN ADDITION, AS INDICATED IN ABOVE SCHEDULING, SOVIET INITIAL INPUT WILL BE TRANSLATED AND AVAILABLE FOR INTERNAL US REVIEW BY JAN. THIS WILL BE FOLLOWED BY CONSULTANT'S REVIEW 9 FEB. AND REVIEW BY GROUP IN MARCH 1976. IT WOULD BE NOTED THAT THIS IS INITIAL DRAFT WHICH WILL BE UNDERGOING REVIEW AND REVISION THROUGHOUT PREPARATION OF GROUP REPORT. END FYI.

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\*\*\* Current Classification \*\*\* CONFIDENTIAL

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